

| L Number | Hits   | Search Text  | DB  | Time stamp          |
|----------|--------|--|---|---------------------|
| 9        | 5      | 4444080.URPN.  | USPAT   | 2003/07/21<br>14:32 |
| 58       | 0      | (perforat\$4 or punch\$4) and (sheer adj cut\$4) and rollers and notch   | USPAT;<br>US-PGPUB                                      | 2003/07/21<br>15:02 |
| 59       | 2402   | (perforat\$4 or punch\$4) and rollers and notch                          | USPAT;<br>US-PGPUB                                      | 2003/07/21<br>15:03 |
| 60       | 88     | (perforat\$4 or punch\$4) same rollers same notch                        | USPAT;<br>US-PGPUB                                      | 2003/07/21<br>15:24 |
| 61       | 9      | 4068366.URPN.  | USPAT   | 2003/07/21<br>15:15 |
| 62       | 9      | 4068366.URPN.  | USPAT   | 2003/07/21<br>15:17 |
| 63       | 4      | ("0716052"   "1166888"   "2266552"   "3293725").PN.                      | USPAT   | 2003/07/21<br>15:17 |
| 69       | 1228   | (perforat\$4 or punch\$4) same rollers same notch                        | USOCR   | 2003/07/21<br>15:29 |
| 68       | 101    | (perforat\$4 or punch\$4) same rollers same notch                        | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/21<br>15:25 |
| 70       | 27     | (perforat\$4 or punch\$4) same rollers same notch same shear same cut\$4 | USOCR   | 2003/07/21<br>15:36 |
| 71       | 30     | (perforat\$4 or punch\$4) same rollers same notch same shear and cut\$4  | USOCR   | 2003/07/21<br>15:39 |
| 72       | 1      | (perforat\$4 or punch\$4)adj wheel same shear same cut\$4 same notch     | USOCR   | 2003/07/21<br>15:40 |
| 73       | 0      | ((perforat\$4 or punch\$4)adj wheel) same shear same cut\$4 same notch   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/21<br>15:40 |
| 74       | 7      | (perforat\$4 or punch\$4)adj wheel same shear same cut\$4                | USOCR   | 2003/07/21<br>15:42 |
| 75       | 1      | (perforat\$4 or punch\$4)adj wheel same shear same cut\$4                | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/21<br>15:44 |
| 76       | 379    | (perforat\$4 or punch\$4)adj wheel                                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/21<br>15:44 |
| 77       | 0      | (perforat\$4 or punch\$4) adj wheel same sheer same notch                | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/21<br>15:45 |
| 78       | 0      | (perforat\$4 or punch\$4) adj wheel same sheer and notch                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/21<br>15:45 |
| 79       | 379    | (perforat\$4 or punch\$4) adj wheel                                      | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/21<br>18:15 |
| 80       | 6      | 3978752.URPN.  | USPAT   | 2003/07/21<br>16:17 |
| 81       | 131658 | 83/332 or 83/346 or 83/345 or "368" or 83/370                            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/21<br>18:14 |

|    |       |   |   |                     |
|----|-------|---|---|---------------------|
| 82 | 24    | (83/332 or 83/346 or 83/345 or "368" or 83/370) and (perforat\$4 or punch\$4) adj wheel                         | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/21<br>18:16 |
| 83 | 36102 | 429/\$.CCLS.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/21<br>18:16 |
| 84 | 0     | 429/\$.CCLS. and (perforat\$4 or punch\$4) adj wheel  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/21<br>18:16 |
| 85 | 3381  | 429/\$.CCLS. and (perforat\$4 or punch\$4)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/21<br>18:16 |
| 86 | 86    | 429/\$.CCLS. and (perforat\$4 or punch\$4) AND NOTCH  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/21<br>18:17 |
| -  | 0     | cut\$4 adj mailpieces   | USPAT;<br>US-PGPUB                                      | 2003/04/04<br>16:51 |
| -  | 41    | cut\$4 same mailpieces  | USPAT;<br>US-PGPUB                                      | 2003/07/21<br>15:00 |
| -  | 518   | 271/149   | USPAT;<br>US-PGPUB                                      | 2003/04/04<br>17:31 |
| -  | 5     | 271/149 and cut\$4 and mailpieces   | USPAT;<br>US-PGPUB                                      | 2003/04/04<br>17:32 |
| -  | 5     | 271/149 and cut\$4 and mailpiece  | USPAT;<br>US-PGPUB                                      | 2003/04/04<br>17:32 |
| -  | 1     | 6250625.URPN.   | USPAT   | 2003/04/04<br>17:41 |
| -  | 9     | ("4615519"   "4817368"   "5083769"   "5116039"   "5119954"   "5464099"   "5934666"   "5947461"   "6164640").PN. | USPAT   | 2003/04/04<br>18:22 |
| -  | 10    | 5464099.URPN.   | USPAT   | 2003/04/04<br>18:04 |
| -  | 116   | 229/314   | USPAT;<br>US-PGPUB                                      | 2003/04/04<br>18:28 |
| -  | 56    | 229/314 and cut\$4  | USPAT;<br>US-PGPUB                                      | 2003/04/04<br>18:28 |
| -  | 4     | mailpiece and jog\$4 and cut\$4   | USPAT;<br>US-PGPUB                                      | 2003/07/18<br>13:22 |
| -  | 885   | open\$3 adj (mailpiece or envelope) and cut\$4  | USPAT;<br>US-PGPUB                                      | 2003/04/07<br>12:29 |
| -  | 24    | open\$3 adj (mailpiece or envelope) and jog\$4 and cut\$4   | USPAT;<br>US-PGPUB                                      | 2003/04/07<br>12:37 |
| -  | 0     | (perforat\$ adj (mailpiece or envelope)) and jog\$4   | USPAT;<br>US-PGPUB                                      | 2003/04/07<br>12:39 |
| -  | 75    | (perforat\$ adj (mailpiece or envelope))  | USPAT;<br>US-PGPUB                                      | 2003/04/07<br>12:48 |
| -  | 27    | perforat\$ same mailpiece   | USPAT;<br>US-PGPUB                                      | 2003/04/07<br>12:52 |
| -  | 0     | (perforat\$ adj device) same mailpiece  | USPAT;<br>US-PGPUB                                      | 2003/04/07<br>12:54 |
| -  | 0     | (perforat\$ adj device) same (mailpiece or envelope)  | USPAT;<br>US-PGPUB                                      | 2003/04/07<br>13:01 |
| -  | 32    | (perforat\$ or cutter) same (mailpiece or envelope)   | USPAT;<br>US-PGPUB                                      | 2003/04/07<br>13:03 |
| -  | 33    | (perforat\$ or punch\$3) same (mailpiece or envelope)   | USPAT;<br>US-PGPUB                                      | 2003/04/07<br>13:06 |
| -  | 1672  | (perforat\$ or punch\$3) adj sheets   | USPAT;<br>US-PGPUB                                      | 2003/04/07<br>13:06 |
| -  | 0     | (perforat\$ or punch\$3) adj sheets and (cut\$4 adj wheel) same notch   | USPAT;<br>US-PGPUB                                      | 2003/04/07<br>13:07 |

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|---|--------|---|--------------------|---------------------|
| - | 149436 | perforat\$ or punch\$3 adj envelope and (cut\$4 adj wheel) same notch   | USPAT;<br>US-PGPUB | 2003/04/07<br>13:08 |
| - | 149436 | perforat\$ or punch\$3 adj envelope and (cut\$4 adj wheel)  | USPAT;<br>US-PGPUB | 2003/04/07<br>13:08 |
| - | 0      | (perforat\$ or punch\$3) adj envelope and (cut\$4 adj wheel)  | USPAT;<br>US-PGPUB | 2003/04/07<br>13:08 |
| - | 10     | (perforat\$ or punch\$3) adj sheet and (cut\$4 adj wheel)   | USPAT;<br>US-PGPUB | 2003/04/07<br>13:20 |
| - | 0      | (cutter adj (wheel or roll)) and perforat\$3 and notch and envelope   | USPAT;<br>US-PGPUB | 2003/04/07<br>14:12 |
| - | 21     | (cutter adj (wheel or roll)) and perforat\$3 and notch  | USPAT;<br>US-PGPUB | 2003/04/07<br>14:22 |
| - | 200    | 83/912  | USPAT;<br>US-PGPUB | 2003/04/07<br>14:40 |
| - | 689    | 83/912 envelope and mailpiece   | USPAT;<br>US-PGPUB | 2003/04/07<br>14:43 |
| - | 1202   | 83/912 envelope and mailpiece ond perforat\$3 and (cut\$4 adj wheel)  | USPAT;<br>US-PGPUB | 2003/04/07<br>14:42 |
| - | 1003   | envelope and mailpiece ond perforat\$3 and (cut\$4 adj wheel)   | USPAT;<br>US-PGPUB | 2003/04/07<br>15:14 |
| - | 1      | (envelope and mailpiece ond perforat\$3 and (cut\$4 adj wheel) ) and 83/912   | USPAT;<br>US-PGPUB | 2003/04/07<br>14:42 |
| - | 0      | 83/912 and envelope and mailpiece   | USPAT;<br>US-PGPUB | 2003/04/07<br>14:43 |
| - | 9      | 83/912 and envelope and (cut\$4 adj wheel)  | USPAT;<br>US-PGPUB | 2003/04/07<br>14:44 |
| - | 1      | 5924840.URPN.   | USPAT              | 2003/04/07<br>14:46 |
| - | 1      | 5924840.URPN.   | USPAT              | 2003/04/07<br>14:47 |
| - | 28     | (mailpiece or envelope) and jog\$4 and cut\$4 and (biological or chemical or powder)  | USPAT;<br>US-PGPUB | 2003/04/07<br>15:27 |
| - | 26121  | (mailpiece or envelope) and (biological or chemical or powder)  | USPAT;<br>US-PGPUB | 2003/04/07<br>15:28 |
| - | 0      | (mailpiece or envelope) and (biological or chemical or powder) and (cut\$4 adj wheel) and jog\$4  | USPAT;<br>US-PGPUB | 2003/04/07<br>15:29 |
| - | 57     | (mailpiece or envelope) and (biological or chemical or powder) and jog\$4   | USPAT;<br>US-PGPUB | 2003/04/07<br>15:31 |
| - | 0      | mailpiece and jog\$4 and cut\$4 and (biological or chemical)  | USPAT;<br>US-PGPUB | 2003/04/07<br>15:32 |
| - | 0      | mailpiece and jog\$4 and powder   | USPAT;<br>US-PGPUB | 2003/04/07<br>15:32 |
| - | 14     | (envelope or mailpiece) and jog\$4 and powder   | USPAT;<br>US-PGPUB | 2003/04/07<br>15:35 |
| - | 32     | (envelope or mailpiece) and jog\$4 and vacuum and compression   | USPAT;<br>US-PGPUB | 2003/04/07<br>15:36 |
| - | 104    | (envelope or mailpiece) and jog\$4 and vacuum   | USPAT;<br>US-PGPUB | 2003/04/07<br>15:46 |
| - | 159    | perforat\$4 and disk and (cut\$4 adj edge) and sheet  | USPAT;<br>US-PGPUB | 2003/07/18<br>19:57 |
| - | 6      | perforat\$4 and disks and nip and (cut\$4 adj edge) and sheet   | USPAT;<br>US-PGPUB | 2003/07/18<br>19:45 |
| - | 162    | perforat\$4 and disks and nip   | USPAT;<br>US-PGPUB | 2003/07/18<br>14:07 |
| - | 352    | 83/678  | USPAT;<br>US-PGPUB | 2003/07/18<br>16:19 |
| - | 8      | "3978753"   | USPAT;<br>US-PGPUB | 2003/07/18<br>16:23 |
| - | 1      | 6063094.URPN.   | USPAT              | 2003/07/18<br>16:24 |
| - | 13     | ("2582511"   "3364920"   "4038986"   "4098278"   "4665915"   "4690139"   "4917086"   "5004468"   "5209755"   "5219352"   "5306279"   "5873881"   "6063094").PN. | USPAT              | 2003/07/18<br>16:24 |
| - | 1      | 6063094.URPN.   | USPAT              | 2003/07/18<br>16:25 |
| - | 6      | ("3470782"   "3866497"   "3978752"   "3978753"   "5196020"   "5219352").PN.   | USPAT              | 2003/07/18<br>16:25 |

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|---|------|---|--------------------|---------------------|
| - | 6    | 3978753.URPN.   | USPAT              | 2003/07/18<br>16:25 |
| - | 3    | ("3067643"   "3152501"   "3408735").PN.   | USPAT              | 2003/07/18<br>18:19 |
| - | 10   | 3152501.URPN.   | USPAT              | 2003/07/18<br>16:26 |
| - | 4    | 5029506.URPN.   | USPAT              | 2003/07/18<br>16:28 |
| - | 7    | ("3152501"   "3677122"   "3760671"  <br>"3777610"   "3908499"   "3988976"  <br>"4667552").PN.   | USPAT              | 2003/07/18<br>16:29 |
| - | 2957 | perforat\$4 and disk and cut\$4 and sheet   | USPAT;<br>US-PGPUB | 2003/07/18<br>16:48 |
| - | 58   | perforat\$4 same disk same cut\$4 same<br>sheet   | USPAT;<br>US-PGPUB | 2003/07/18<br>16:50 |
| - | 39   | perforat\$4 and castellat\$3 same edge  | USPAT;<br>US-PGPUB | 2003/07/18<br>20:00 |
| - | 3    | 4167991.URPN.   | USPAT              | 2003/07/18<br>16:56 |
| - | 5    | ("2456488"   "3152480"   "3830347"  <br>"3907080"   "4036358").PN.  | USPAT              | 2003/07/18<br>16:56 |
| - | 6    | 3978752.URPN.   | USPAT              | 2003/07/18<br>17:23 |
| - | 0    | 6035753.URPN.   | USPAT              | 2003/07/18<br>17:28 |
| - | 10   | ("0526347"   "3463039"   "3554070"  <br>"3978752"   "3978753"   "4699035"  <br>"4745835"   "4805502"   "5029506"  <br>"5174184").PN.  | USPAT              | 2003/07/18<br>17:28 |
| - | 7    | 3463039.URPN.   | USPAT              | 2003/07/18<br>17:36 |
| - | 1    | 5868057.URPN.   | USPAT              | 2003/07/18<br>17:39 |
| - | 21   | ("0371736"   "1441708"   "1710142"  <br>"2266958"   "2401310"   "2799930"  <br>"2825407"   "2842202"   "2973578"  <br>"3120777"   "3147658"   "3205750"  <br>"3394866"   "3427912"   "3463039"  <br>"3813977"   "3860158"   "4706533"  <br>"5117721"   "5448833"   "5492041").PN. | USPAT              | 2003/07/18<br>17:39 |
| - | 3    | 5117721.URPN.   | USPAT              | 2003/07/18<br>17:41 |
| - | 4    | ("1177057"   "1712034"   "2842202"  <br>"5022299").PN.  | USPAT              | 2003/07/18<br>17:41 |
| - | 0    | cut\$4 adj edge same width same preforat\$4<br>same notch   | USPAT              | 2003/07/18<br>18:19 |
| - | 0    | (cut\$4 adj edge) same width same<br>preforat\$4 same notch   | USPAT              | 2003/07/18<br>18:19 |
| - | 0    | (cut\$4 adj edge) same preforat\$4 same<br>notch  | USPAT              | 2003/07/18<br>18:20 |
| - | 1399 | (cut\$4 adj edge) same notch  | USPAT              | 2003/07/18<br>18:20 |
| - | 35   | (cut\$4 adj edge) same notch same<br>perforat\$   | USPAT              | 2003/07/18<br>18:22 |
| - | 104  | (cut\$4 adj edge) same (notch or slot)<br>same perforat\$   | USPAT              | 2003/07/18<br>18:23 |
| - | 104  | (cut\$4 adj edge) same (notch or slot)<br>same perforat\$   | USPAT              | 2003/07/18<br>19:55 |
| - | 5    | 4444080.URPN.   | USPAT              | 2003/07/18<br>18:40 |
| - | 6    | ("0461600"   "2870840"   "3709077"  <br>"3828637"   "4010666"   "4370908").PN.  | USPAT              | 2003/07/18<br>18:40 |
| - | 104  | (cut\$4 adj edge) same (notch or slot)<br>same perforat\$   | USPAT              | 2003/07/18<br>18:59 |
| - | 254  | (cut\$4 adj edge) same (notch or slot)<br>same (disk or wheel)  | USPAT              | 2003/07/18<br>19:01 |
| - | 0    | envelop same proforat\$4 same slot same<br>(disk or wheel)  | USPAT              | 2003/07/18<br>19:02 |
| - | 0    | envelop same preforat\$4 same slot same<br>(disk or wheel)  | USPAT              | 2003/07/18<br>19:02 |

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| - | 1    | perforat\$4 same slot same (disk or wheel)   | USPAT  | 2003/07/18<br>19:03 |
| - | 6859 | envelop  | USPAT  | 2003/07/18<br>19:03 |
| - | 9    | envelop same cut\$4 same (disk or wheel)   | USPAT  | 2003/07/18<br>19:06 |
| - | 0    | (disk or wheel) same (sheet or paper) and<br>perforat\$4 and (cut\$4 adj edg)  | USPAT  | 2003/07/18<br>19:08 |
| - | 3023 | (disk or wheel) same (sheet or paper) and<br>perforat\$4   | USPAT  | 2003/07/18<br>19:08 |
| - | 8    | (disk or wheel) same (sheet or paper) and<br>perforat\$4 same slot same punch  | USPAT  | 2003/07/18<br>19:11 |
| - | 7    | 3602080.URPN.  | USPAT  | 2003/07/18<br>19:10 |
| - | 4    | ("3106859"   "3175443"   "3194095"  <br>"3334533").PN.   | USPAT  | 2003/07/18<br>19:11 |
| - | 110  | (disk or wheel) same (sheet or paper) and<br>perforat\$4 same punch  | USPAT  | 2003/07/18<br>19:36 |
| - | 4    | 4166613.URPN.  | USPAT  | 2003/07/18<br>19:19 |
| - | 2    | ("2261315"   "2769496").PN.  | USPAT  | 2003/07/18<br>19:19 |
| - | 4    | "5117721"  | USPAT  | 2003/07/18<br>19:44 |
| - | 6    | 5537905.URPN.  | USPAT  | 2003/07/18<br>19:37 |
| - | 8    | ("2361288"   "2401310"   "2731902"  <br>"3411208"   "3824887"   "4829854"  <br>"5117721"   "5240755").PN.  | USPAT  | 2003/07/18<br>19:37 |
| - | 11   | 5240755.URPN.  | USPAT  | 2003/07/18<br>19:38 |
| - | 7    | ("2264339"   "3892901"   "3920122"  <br>"4889731"   "4925716"   "4951967"  <br>"5114771").PN.  | USPAT  | 2003/07/18<br>19:39 |
| - | 10   | 4951967.URPN.  | USPAT  | 2003/07/18<br>19:41 |
| - | 8    | ("2176815"   "2343119"   "2700556"  <br>"2775448"   "2782056"   "3228710"  <br>"3343851"   "3809410").PN.  | USPAT  | 2003/07/18<br>19:42 |
| - | 1    | perforat\$4 and disks and nip and (cut\$4<br>adj edge) and sheet   | USOCR  | 2003/07/18<br>19:45 |
| - | 12   | perforat\$4 and disks and nip and cut and<br>punch   | USOCR  | 2003/07/18<br>19:46 |
| - | 728  | (cut\$4 adj edge) same (notch or slot)<br>same perforat\$  | USOCR  | 2003/07/18<br>19:50 |
| - | 16   | "3554070"  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT | 2003/07/18<br>19:50 |
| - | 0    | 6289777.URPN.  | USPAT  | 2003/07/18<br>19:52 |
| - | 7    | 4228735.URPN.  | USPAT  | 2003/07/18<br>19:52 |
| - | 12   | ("0010001"   "2683409"   "3068788"  <br>"3106121"   "3203292"   "3431847"  <br>"3524922"   "3554070"   "3583269"  <br>"3593987"   "3611921"   "4044666").PN. | USPAT  | 2003/07/18<br>19:53 |
| - | 36   | (cut\$4 adj edge) same (notch or slot)<br>same perforat\$  | USOCR  | 2003/07/18<br>19:55 |
| - | 29   | perforat\$4 and disk and (cut\$4 adj edge)<br>and sheet  | USOCR  | 2003/07/18<br>19:58 |
| - | 93   | perforat\$4 and castellat\$3 same edge   | USOCR  | 2003/07/18<br>20:02 |
| - | 39   | perforat\$4 and castellat\$3 same edge   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT | 2003/07/18<br>20:02 |
| - | 10   | 4521309.URPN.  | USPAT  | 2003/07/18<br>20:05 |

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|---|---|-----------------------------|-------|---------------------|
| - | 2 | ("3457339"   "4104170").PN. | USPAT | 2003/07/18<br>20:06 |
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